

SZSAR-TRF-01 Rev. A/0 May15,2023

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SAR TEST REPORT

Application No.:	SZCR2412004719AT
Applicant:	Skyhigh Tech LLC
Address of Applicant:	1209 Orange Street, Wilmington, 19801, Wilmington, Delaware, United States
Manufacturer:	Skyhigh Tech LLC
Address of Manufacturer:	1209 Orange Street, Wilmington, 19801, Wilmington, Delaware, United States
EUT Description:	YKBP RC 2
Model No.:	YKBP2
FCC ID:	2BLZI-YKBP22411
Standards:	FCC 47CFR §2.1093
Date of Receipt:	2025-02-14
Date of Test:	2025-02-18 to 2025-02-21
Date of Issue:	2025-02-26
Test Result :	PASS *
* In the configuration tes	ted the ELIT detailed in this report complied with the standards specified above

In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Keny. Ku

Keny Xu EMC Laboratory Manager



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	Revision Record			
Version	Chapter	Date	Modifier	Remark
01		2025-02-26		Original

Authorized for issue by:		
	Porjon. iIn ang	
	Donjon Huang/Project Engineer	
	Erric Fu	
	Eric Fu/Reviewer	



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	Maximum Repo	orted SAR(W/kg)	
Frequency Band	Body 1g SAR	Limbs 10g SAR	
WI-FI (2.4GHz)	<0.10	1.09	
WI-FI (5GHz)	0.14	0.53	
2.4G SDR	<0.10	0.18	
5G SDR	<0.10	0.33	
ВТ	<0.10	0.34	
SAR Limited(W/kg)	1.6	4.0	
Maximum Simultaneous Transmission SAR (W/kg)			
Scenario	Body 1g SAR	Limbs 10g SAR	
Sum SAR	0.16	1.42	
SPLSR	/	/	
SPLSR Limited	0.04	0.1	

TEST SUMMARY



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1 General Information

1.1 General Description of EUT

-			
Product Name:	YKBP RC 2		
Model No.:	YKBP2		
Trade Mark:	2BLZI-YKBP22411		
Product Phase:	production unit		
Device Type:	portable device		
Exposure Category:	uncontrolled environmer	nt / general population	
IMEI:	7CACM3200100B7		
Hardware Version:	V1.0		
Software Version:	V00.00.00.01		
Antenna Type:	РСВ		
Device Operating Configurations:			
Modulation Mode:	WIFI:DSSS,OFDM; 2.4G SDR/5G SDR:OFDM; BT:GFSK, π/4DQPSK,8DPSK		
	Band	Tx(MHz)	Rx(MHz)
	WIFI 2.4G	2400~2483.5	2400~2483.5
		5150~5250	5150~5250
Frequency Bondo	WIFI 5G	5725~5850	5725~5850
Frequency Bands:	BT	2400~2483.5	2400~2483.5
	2.4G SDR	2403.5~2469.5	2403.5~2469.5
	5.1G SDR	5154~5248	5154~5248
	5.8G SDR	5728.5~5847.2	5728.5~5847.2
RF Cable:	Provided by applicant Provided by the laboratory		
	Model:	BRX700	
Pottory Information	Normal Voltage:	7.2V	
Battery Information:	Rated capacity:	3250mAh	
	Manufacturer:	De.power Technology Limited	
Noto:			

Note:

*Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion. Remark:

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1.1.1 DUT Antenna Locations

The DUT Antenna Locations can be referred to Appendix D



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1.2 Test Specification

Identity	Document Title
FCC 47CFR §2.1093	Radiofrequency Radiation Exposure Evaluation: Portable Devices
ANSI/IEEE C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz – 300 GHz.
IEEE 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 248227 D01	SAR Guidance for IEEE 802 11 Wi-Fi SAR v02r02
KDB 648474 D04	Handset SAR v01r03
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02



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1.3 RF exposure limits

	Uncontrolled Environment	Controlled Environment	
Human Exposure	General Population	Occupational	
Spatial Peak SAR*	1.60 mW/a	8.00 mW/a	
(Brain*Trunk)	1.60 mW/g	8.00 mW/g	
Spatial Average SAR**	0.08 mW/a	0.40 mW/c	
(Whole Body)	0.08 mW/g	0.40 mW/g	
Spatial Peak SAR***	4.00 m///a	20.00 m////	
(Hands/Feet/Ankle/Wrist)	4.00 mW/g	20.00 mW/g	

Notes:

* The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time

** The Spatial Average value of the SAR averaged over the whole body.

*** The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation.)



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1.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057. Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.

1.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC – Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006. IC#: 4620C.



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2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C	
Relative humidity	Min. = 30%, Max. = 70%	
Ground system resistance	< 0.5 Ω	
Ambient noise is checked and found very low and in compliance with requirement of standards.		
Reflection of surrounding objects is minimized and in compliance with requirement of standards.		



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3 SAR Measurements System Configuraion

3.1 The SAR Measurement System

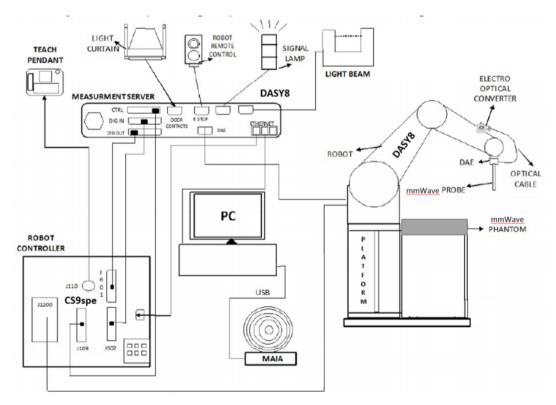
This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR= σ (|Ei|2)/ ρ where σ and ρ are the conductivity and mass density of the tissue-Simulate.

The DASY system for performing compliance tests consists of the following items: A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, ADconversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



F-1. SAR Measurement System Configuration



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- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows system.
- DASY software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validating the proper functioning of the system.



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3.2 Isotropic E-field Proble EX3DV4

	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	ISO/IEC 17025 calibration service available.	
Frequency10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)		
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)	
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)	
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	
Compatibility	DASY52 SAR and higher, EASY4/MRI	



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3.3 Data Acquisition Electronics (DAE)

Model	DAE	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	- A
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)	
Input Offset Voltage	< 5µV (with auto zero)	
Input Bias Current	< 50 f A	
Dimensions	60 x 60 x 68 mm	

3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	- 6
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2 ± 0.2 mm (6 ± 0.2 mm at ear point)	
Dimensions (incl. Wooden Support)	Length: 1000 mm Width: 500 mm Height: adjustable feet	
Filling Volume	pprox 25 liters	
Wooden Support	SPEAG standard phantom table	

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



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3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	2.0 ± 0.2 mm(bottom plate)	100
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	pprox 30 liters	
Wooden Support	SPEAG standard phantom table	

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4 but has reinforced top structure.



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3.6 Device Holder for Transmitters



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε =3 and loss tangent δ =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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3.7 Measurement Procedure

3.7.1 Scanning procedure

Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm*15mm or 12mm*12mm or 10mm*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

Step 3: Zoom scan

Around this point, a volume of $32mm^*32mm^*30mm$ (f≤2GHz), $30mm^*30mm^*30mm$ (f for 2-3GHz) and $24mm^*24mm^*22mm$ (f for 5-6GHz) was assessed by measuring 5x5x7 points (f≤2GHz), 7x7x7 points (f for 2-3GHz) and 7x7x12 points (f for 5-6GHz). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip. The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



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			\leq 3 GHz	> 3 GHz		
Maximum distance fro (geometric center of pr			$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$		
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30°±1°	20° ± 1°		
			$\leq 2 \text{ GHz}$: $\leq 15 \text{ mm}$ 2 - 3 GHz: $\leq 12 \text{ mm}$	$\begin{array}{l} 3-4 \ GHz; \leq 12 \ mm \\ 4-6 \ GHz; \leq 10 \ mm \end{array}$		
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.			
Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$			$\leq 2 \text{ GHz:} \leq 8 \text{ mm}$ 2 - 3 GHz: $\leq 5 \text{ mm}^*$	$3 - 4$ GHz: ≤ 5 mm $4 - 6$ GHz: ≤ 4 mm		
	uniform	grid: ∆z _{Z∞m} (n)	$\leq 5 \text{ mm}$	$3 - 4$ GHz: ≤ 4 mm $4 - 5$ GHz: ≤ 3 mm $5 - 6$ GHz: ≤ 2 mm		
Maximum zoom scan spatial resolution, normal to phantom surface	∆z _{Zoom} (1): between 1 st two points closest to phantom surface		$\leq 4 \text{ mm}$	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm		
	grid	∆z _{Zoom} (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$			
Minimum zoom scan volume	x, y, z		\geq 30 mm	$\begin{array}{l} 3-4 \ \text{GHz:} \geq 28 \ \text{mm} \\ 4-5 \ \text{GHz:} \geq 25 \ \text{mm} \\ 5-6 \ \text{GHz:} \geq 22 \ \text{mm} \end{array}$		

Step 4: Power reference measurement (drift)

The Power Drift Measurement job measures the field at the same location as the most recent power reference measurement job within the same procedure, and with the same settings. The indicated drift is mainly the variation of the DUT's output power and should vary max. ± 5 %



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3.7.2 Data storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension "DAE". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

3.7.3 Data Evaluation by SEMCAD

The SEMCAD software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression	n point Dcpi	
Device parameters:	- Frequency	f
 Crest factor 	cf	
Media parameters:	 Conductivity 	3
- Density	ρ	

These parameters must be set correctly in the software. They can be found in the component documents, or they can be imported into the software from the configuration files issued for the DASY components. In the direct measuring mode of the multimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$V_i = U_i + U_i^2 \cdot c f / d c p_i$

With Vi = compensated signal of channel I (I = x, y, z) Ui = input signal of channel I (I = x, y, z) cf = crest factor of exciting field (DASY parameter) dcp I = diode compression point (DASY parameter)

From the compensated input signals the primary field data for each channel can be evaluated: E-field probes:





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 $\begin{array}{l} E_{i} = \left(V_{i} / Norm_{i} \cdot ConvF \right)^{1/2} \\ \text{H-field probes:} \\ H_{i} = \left(V_{i} \right)^{1/2} \cdot \left(a_{i0} + a_{i1}f + a_{i2}f^{2} \right) / f \\ \text{With} \quad \text{Vi = compensated signal of channel I} \qquad (I = x, y, z) \\ \text{Normi = sensor sensitivity of channel I} \qquad (I = x, y, z) \\ \text{(mV/(V/m)2] for E-field Probes} \\ \text{ConvF = sensitivity enhancement in solution} \\ aij = sensor sensitivity factors for H-field probes \\ f = carrier frequency [GHz] \\ \text{Ei = electric field strength of channel I in V/m} \\ \text{Hi = magnetic field strength of channel I in A/m} \end{array}$

The RSS value of the field components gives the total field strength (Hermitian magnitude):

 $E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$ The primary field data are used to calculate the derived field units. $SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$

with SAR = local specific absorption rate in mW/g Etot = total field strength in V/m σ = conductivity in [mho/m] or [Siemens/m] ϵ = equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

$P_{pwe} = E_{tot}^2 2 / 3770_{or} P_{pwe} = H_{tot}^2 \cdot 37.7$

with Ppwe = equivalent power density of a plane wave in mW/cm2 Etot = total electric field strength in V/m Htot = total magnetic field strength in A/m



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4 SAR measurement variability and uncertainty

4.1 SAR measurement variability

Per KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

2) When the original highest measured SAR is \geq 0.80 W/kg, repeat that measurement once.

3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is \ge 1.45 W/kg (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is \geq 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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5 Desciption of Test Position

5.1 The Body Test Position

5.1.1 Hand-held usage of the device

Devices that are designed or intended for use on extremities (i.e., hands, wrists, feet and ankles), or mainly operated in extremity-only exposure conditions, may require extremity SAR evaluation. When extremity SAR testing is required, a flat phantom is typically used. However, when the device also operates in close proximity to the user's body, SAR compliance for the body is also required. Based on user usage scenarios, we conducted body SAR tests on the bottom side and limbs condition tests on all six sides.



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6 SAR System Verificaion Procedure

6.1 Tissue Simulate Liquid

6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients			Frequency (MHz)					
(% by weight)	450	700-1000	1700-2000	2300-2500	2500-2700			
Water	38.56	40.30	55.24	55.00	54.92			
Salt (NaCl)	3.95	1.38	0.31	0.2	0.23			
Sucrose	56.32	57.90	0	0	0			
HEC	0.98	0.24	0	0	0			
Bactericide	e 0.19 0.18 0		0	0	0			
Tween	0 0 44		44.45	44.80	44.85			
Salt: 99+% Pure	Sodium Chloride		Sucrose: 98+% P	ure Sucrose				
Water: De-ionized	d, 16 MΩ+ resistivit	Y	HEC: Hydroxyeth	yl Cellulose				
Tween: Polyoxye	thylene (20) sorbita	an monolaurate						
HSL5GHz is com	posed of the follow	ring ingredients∶ (I	Manufactured by S	PEAG)				
Water: 50-65%								
Mineral oil: 10-30%								
Emulsifiers: 8-25%								
Sodium salt: 0-1	.5%							

Table 1 : Recipe of Tissue Simulate Liquid



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6.1.2 Measurement for Tissue Simulate Liquid

The Conductivity (σ) and Permittivity (ϵ r) are listed in Table 2. For the SAR measurement given in this report.

The temperature variation of the Tissue Simulate Liquids was 22±2°C.

	Measurement for Tissue Simulate Liquid										
	Measured Frequency		d Tissue	Target Tis	sue (±5%)	Devia (Within		-	Test		
	(MHz)	٤r	σ(S/m)	٤r	σ(S/m)	٤r	σ(S/m)		Date		
2450 Head	2450	38.300	1.830	39.20	1.80	-2.30%	1.67%	21.6	2025/2/18		
2600 Head	2600	38.000	1.890	39.00	1.96	-2.56%	-3.57%	21.7	2025/2/20		
5250 Head	5250	37.200	4.640	35.90	4.71	3.62%	-1.49%	21.7	2025/2/19		
5250 Head	5250	37.100	4.630	35.90	4.71	3.34%	-1.70%	21.8	2025/2/21		
5750 Head	5750	36.400	5.240	35.40	5.22	2.82%	0.38%	21.7	2025/2/19		
5750 Head	5750	36.200	5.100	35.40	5.22	2.26%	-2.30%	21.8	2025/2/21		

Table 2: Measurement result of Tissue electric parameters



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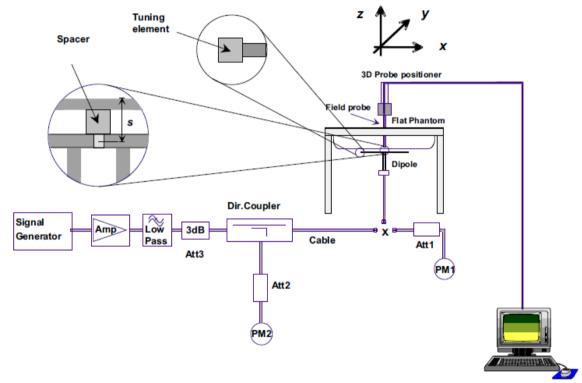


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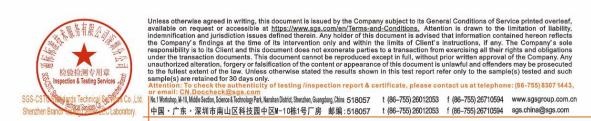
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6.2 SAR System Check

The microwave circuit arrangement for system Check is sketched in F-12. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table (A power level of 250mW (below 3GHz) or 100mW (3-6GHz) was input to the dipole antenna). During the tests, the ambient temperature of the laboratory was in the range 22 \pm 2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 \pm 0.5 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-12.The microwave circuit arrangement used for SAR system Check





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6.2.1 Justification for Extended SAR Dipole Calibrations

1) Instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.

- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) Return-loss is within 20% of calibrated measurement;
- d) Impedance is within 5Ω from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



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6.2.2 Summary System Check Result(s)

SAR System Validation Result(s)											
Validation Kit		Measured SAR 250mW	SAR	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	(normalized	Target SAR (normalized to 1W)	Deviation		Liquid Temp.	Test Date
		1g (W/kg)	10g (W/kg)	1g (W/kg)		1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)	(ෆ)	
D2450V2	Head	13.30	6.51	53.20	26.04	52.20	24.30	1.92%	7.16%	21.6	2025/2/18
D2450V2	Head	13.12	6.42	52.48	25.68	52.20	24.30	0.54%	5.68%	21.7	2025/2/20
Validation Kit		Measured SAR 100mW	SAR	Measured SAR (normalized to 1W)	Measured SAR (normalized to 1W)	(normalized	Target SAR (normalized to 1W)	(Within ±10%)		Within ±10%) Liquid Temp.	
		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)	1- g(W/kg)	10- g(W/kg)	(°C)	
	Head(5.25GHz)	8.22	2.38	82.20	23.80	77.30	22.10	6.34%	7.69%	21.7	2025/2/19
D5GHzV2	Head(5.25GHz)	8.15	2.29	81.50	22.90	77.30	22.10	5.43%	3.62%	21.8	2025/2/21
	Head(5.75GHz)	8.14	2.25	81.40	22.50	77.10	21.30	5.58%	5.63%	21.7	2025/2/19
	Head(5.75GHz)	8.18	2.33	81.80	23.30	77.10	21.30	6.10%	9.39%	21.8	2025/2/21

Table 3 : SAR System Check Result

6.2.3 Detailed System Check Results

Please see the Appendix A



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7 Test Configuration

7.1 Operation Configurations

7.2 WIFI Test Configuration

For the 802.11b/g/n/ax SAR tests, a communication link is set up with the test mode software for Wi-Fi mode test. The Absolute Radio Frequency Channel Number (ARFCN) is allocated to 1, 6 and 11 respectively in the case of 2450 MHz during the test at theeach test frequency channel, the EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest rate.802.11 b/g/n/ax operating modes are tested independently according to the service requirements in each frequency band. 802.11 b/g/n/ax modes are tested on channel 1, 6, 11; However if output power reduction is necessary for channels 1 and/or 11 to meet restricted band requirements the highest output channel closest to each of these channels must be tested instead. SAR is not required for 802.11g/n channels when the maximum average output power is less than 0.25dB higher than that measured on the corresponding 802.11b channels.

7.3 2.4GHz SDR Test Configuration

For the SAR tests, a communication link is set up with the test mode software for 2.4GHz, in the case of 2402.15~2479.85 MHz, during the test at each test frequency channel. The EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest rate. operating modes are tested independently according to the service requirements in each frequency band.

7.4 SDR 5.1G Test Configuration

For the SAR tests, a communication link is set up with the test mode software for 5.1G, in the case of 5154-5248MHz, during the test at each test frequency channel. The EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest rate. operating modes are tested independently according to the service requirements in each frequency band.

7.5 SDR5.8G Test Configuration

For the SAR tests, a communication link is set up with the test mode software for 5.8G, in the case of 5727.5~5847.2MHz, during the test at each test frequency channel. The EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest rate. operating modes are tested independently according to the service requirements in each frequency band.



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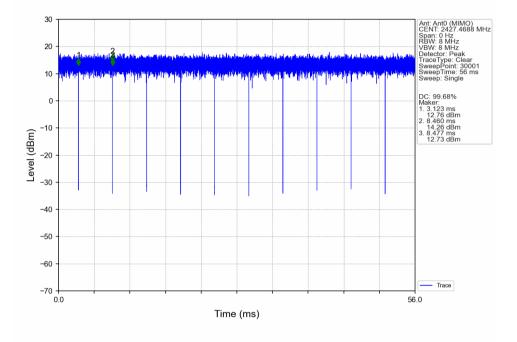


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7.5.1 Duty cycle







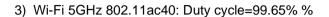
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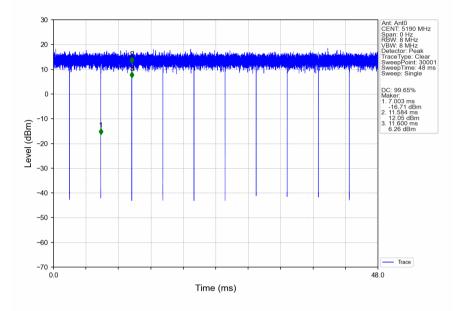
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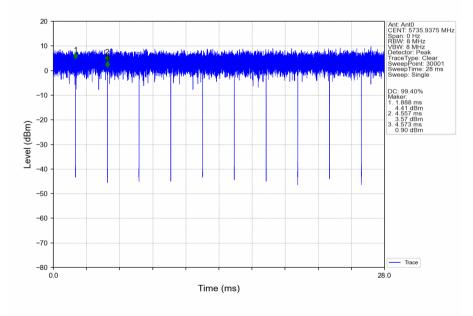
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4) Wi-Fi 5GHz 802.11ac80: Duty cycle=98.04%





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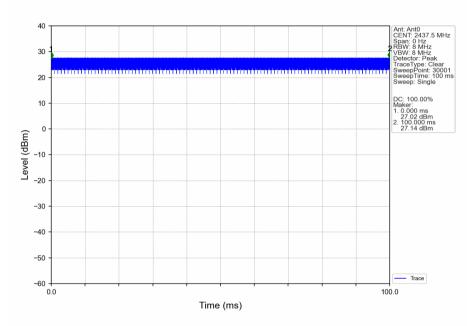


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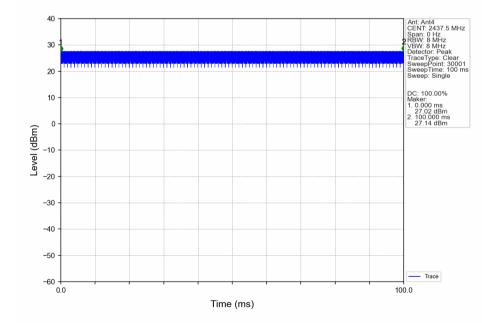
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5) 2.4GHz SDR

Ant1+2: Duty cycle=100.00%



Ant4+5: Duty cycle=100.00%





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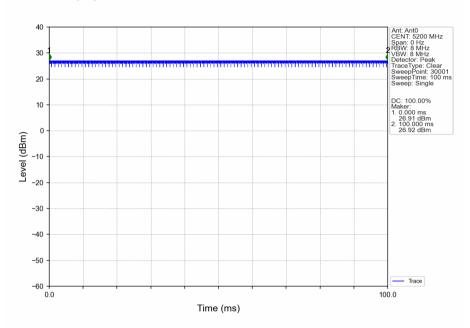


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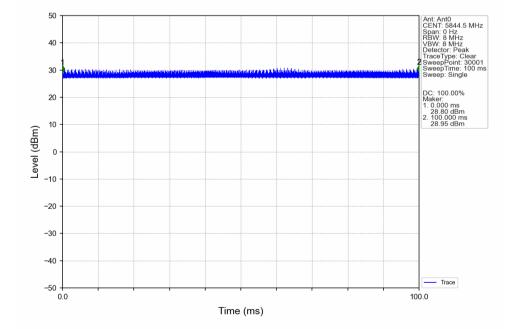
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6) 5GHz SDR:

Ant0+1: Duty cycle=100.00%



Ant4+5: Duty cycle=100.00%





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7.5.1.1 Initial Test Position SAR Test Reduction Procedure

DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test configuration and subsequent test configuration(s) according to the OFDM procedures. The initial test position procedure is described in the following:

1) . When the reported SAR of the initial test position is ≤ 0.4 W/kg, further SAR measurement is not required for the other (remaining) test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band. SAR is also not required for that exposure configuration in the subsequent test configuration(s).

2) . When the reported SAR of the initial test position is > 0.4 W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position using subsequent highest extrapolated or estimated 1-g SAR conditions determined by area scans or next closest/smallest test separation distance and maximum RF coupling test positions based on manufacturer justification, on the highest maximum output power channel, until the reported SAR is \leq 0.8 W/kg or all required test positions (left, right, touch, tilt or subsequent surfaces and edges) are tested.

3) . For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is \leq 1.2 W/kg or all required channels are tested. a) Additional power measurements may be required for this step, which should be limited to those necessary for identifying the subsequent highest output power channels.



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7.5.1.2 Subsequent Test Configuration Procedures

SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

1) . When SAR test exclusion provisions of KDB Publication 447498 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.

2) . When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for that subsequent test configuration. 3) . The number of channels in the initial test configuration and subsequent test configuration can be

different due to differences in channel bandwidth. When SAR measurement is required for a subsequent test configuration and the channel bandwidth is smaller than that in the initial test configuration, all channels in the subsequent test configuration that overlap with the larger bandwidth channel tested in the initial test configuration should be used to determine the highest maximum output power channel. This step requires additional power measurement to identify the highest maximum output power channel in the subsequent test configuration to determine SAR test reduction.

a) SAR should first be measured for the channel with highest measured output power in the subsequent test configuration.

b) SAR for subsequent highest measured maximum output power channels in the subsequent test configuration is required only when the reported SAR of the preceding higher maximum output power channel(s) in the subsequent test configuration is > 1.2 W/kg or until all required channels are tested. i) For channels with the same measured maximum output power, SAR should be measured using the channel closest to the center frequency of the larger channel bandwidth channel in the initial test configuration.
 4) SAR measurements for the remaining highest specified maximum output power OFDM transmission

mode configurations that have not been tested in the initial test configuration (highest maximum output) or subsequent test configuration(s) (subsequent next highest maximum output power) is determined by recursively applying the subsequent test configuration procedures in this section to the remaining configurations according to the following:

a) replace "subsequent test configuration" with "next subsequent test configuration" (i.e., subsequent next highest specified maximum output power configuration)

b) replace "initial test configuration" with "all tested higher output power configurations"



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7.5.1.3 2.4 GHz WiFi SAR Procedures

Separate SAR procedures are applied to DSSS and OFDM configurations in the 2.4 GHz band to simplify DSSS test requirements. For 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions. When SAR measurement is required for an OFDM configuration, the initial test configuration, subsequent test configuration and initial test position procedures are applied. The SAR test exclusion requirements for 802.11g/n OFDM configurations are described in following.

• 802.11b DSSS SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either a fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) . When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 2.4 GHz 802.11g/n OFDM SAR Test Exclusion Requirements

When SAR measurement is required for 2.4 GHz 802.11g/n OFDM configurations, the measurement and test reduction procedures for OFDM are applied (section 5.3, including sub-sections). SAR is not required for the following 2.4 GHz OFDM conditions.

- 1). When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 g/n OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power and the channel within a test configuration with the highest measured maximum output power should be clearly distinguished to apply the procedures.



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7.5.1.4 5 GHz WiFi SAR Procedures

• U-NII-1 and U-NII-2A Bands

- For devices that operate in only one of the U-NII-1 and U-NII-2A bands, the normally required SAR procedures for OFDM configurations are applied. For devices that operate in both U-NII bands using the same transmitter and antenna(s), SAR test reduction is determined according to the following:
- When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. If the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration (802.11 mode and exposure condition); otherwise, both bands are tested independently for SAR.
- 2) When different maximum output power is specified for the bands, begin SAR measurement in the band with higher specified maximum output power. The highest reported SAR for the tested configuration is adjusted by the ratio of lower to higher specified maximum output power for the two bands. When the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for the band with lower maximum output power in that test configuration; otherwise, both bands are tested independently for SAR.
- 3) The two U-NII bands may be aggregated to support a 160 MHz channel on channel number 50. Without additional testing, the maximum output power for this is limited to the lower of the maximum output power certified for the two bands. When SAR measurement is required for at least one of the bands and the highest reported SAR adjusted by the ratio of specified maximum output power of aggregated to standalone band is > 1.2 W/kg, SAR is required for the 160 MHz channel. This procedure does not apply to an aggregated band with maximum output higher than the standalone band(s); the aggregated band must be tested independently for SAR. SAR is not required when the 160 MHz channel is operating at a reduced maximum power and also qualifies for SAR test exclusion.

• U-NII-2C and U-NII-3 Bands

The frequency range covered by these bands is 380 MHz (5.47 - 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. when Terminal Doppler Weather Radar (TDWR) restriction applies, all channels that operate at 5.60 - 5.65 GHz must be included to apply the SAR test reduction and measurement procedures.

When the same transmitter and antenna(s) are used for U-NII-2C band and U-NII-3 band or 5.8 GHz band of §15.247, the bands may be aggregated to enable additional channels with 20, 40 or 80 MHz bandwidth to span across the band gap, as illustrated in Appendix B. The maximum output power for the additional band gap channels is limited to the lower of those certified for the bands. Unless band gap channels are permanently disabled, they must be considered for SAR testing. The frequency range covered by these bands is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. To maintain SAR measurement accuracy and to facilitate test reduction, the channels in U-NII-2C band above 5.65 GHz may be grouped with the 5.8 GHz channels in U-NII-3 or §15.247 band to enable two SAR probe calibration frequency points to cover the bands, including the band gap channels. When band gap channels are supported and the bands are not aggregated for SAR testing, band gap channels must be considered independently in each band according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.



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OFDM Transmission Mode SAR Test Configuration and Channel Selection Requirements

The initial test configuration for 5 GHz OFDM transmission modes is determined by the 802.11 configuration with the highest maximum output power specified for production units, including tune-up tolerance, in each standalone and aggregated frequency band. SAR for the initial test configuration is measured using the highest maximum output power channel determined by the default power measurement procedures. When multiple configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined according to the following steps applied sequentially.

- 1) The largest channel bandwidth configuration is selected among the multiple configurations with the same specified maximum output power.
- If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
- 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
- 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n. After an initial test configuration is determined, if multiple test channels have the same measured maximum output power, the channel chosen for SAR measurement is determined according to the following. These channel selection procedures apply to both the initial test configuration(s), with respect to the default power measurement procedures or additional power measurements required for further SAR test reduction. The same procedures also apply to subsequent highest output power channel(s) selection.
 - a) The channel closest to mid-band frequency is selected for SAR measurement.
 - b) For channels with equal separation from mid-band frequency; for example, high and low channels or two mid-band channels, the higher frequency (number) channel is selected for SAR measurement.

• SAR Test Requirements for OFDM configurations

When SAR measurement is required for 802.11 a/n/ac OFDM configurations, each standalone and frequency aggregated band is considered separately for SAR test reduction. When the same transmitter and antenna(s) are used for U-NII-1 and U-NII-2A bands, additional SAR test reduction applies. When band gap channels between U-NII-2C band and 5.8 GHz U-NII-3 or §15.247 band are supported, the highest maximum output power transmission mode configuration and maximum output power channel across the bands must be used to determine SAR test reduction, according to the initial test configuration and subsequent test configuration requirements. In applying the initial test configuration and subsequent test configuration procedures, the 802.11 transmission configuration with the highest specified maximum output power should be clearly distinguished to apply the procedures.



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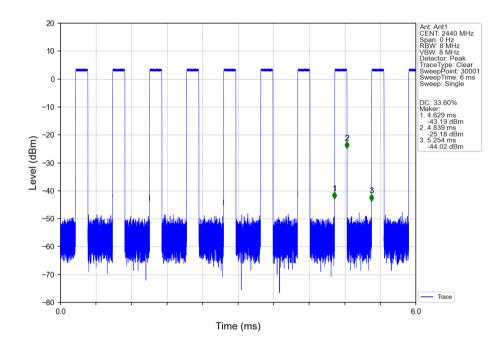


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7.6 Bluetooth Test Configuration

For the Bluetooth SAR tests, a communication link is set up with the test mode software for BT mode test. Bluetooth USES frequency hopping technology to divide the transmitted data into packets and transmit the packets respectively through 79 designated Bluetooth channels, 1MHz Bandwidth, frequency hops at 1600 hops/second per the Bluetooth standard. The Radio Frequency Channel Number (RFCN) is allocated to 0, 39 and 78 respectively in the case of 2402~2480 MHz during the test at each test frequency channel, the EUT is operated at the RF continuous emission mode.



6) BLE 2M Ant 1: Duty cycle=33.60%



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8 Test Result

8.1 Measurement of RF Conducted Power

8.1.1 Conducted Power of WIFI 2.4G

	WIFI 2.4G Ant0								
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up				
	1	2412		17.38	18.30				
802.11b	6	2437	1	17.34	18.30				
	11	2462		16.56	17.50				
	1	2412		16.05	17.00				
802.11g	6	2437	6	17.14	18.00				
	11	2462		16.24	17.00				
	1	2412		14.46	15.50				
802.11n HT20	6	2437	6.5	15.63	16.50				
11120	11	2462		14.66	15.50				
	3	2422		14.60	15.50				
802.11n HT40	6	2437	13.5	15.65	16.50				
11140	9	2452		14.75	15.50				
	1	2412		14.55	15.50				
802.11ax HE20	6	2437	MCS0	15.87	16.50				
TIE20	11	2462] [14.82	15.50				
	3	2422		14.45	15.50				
802.11ax HE40	6	2437	MCS0	15.54	16.50				
10	9	2452		14.62	15.50				



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	WIFI 2.4G Ant1								
Mode	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up				
	1	2412		18.55	19.50				
802.11b	6	2437	1	18.95	20.00				
	11	2462		17.87	18.50				
	1	2412		17.61	18.50				
802.11g	6	2437	6	18.93	20.00				
	11	2462		17.72	18.50				
	1	2412		16.20	17.50				
802.11n HT20	6	2437	6.5	17.50	18.50				
11120	11	2462		16.30	17.50				
	3	2422		15.89	17.00				
802.11n HT40	6	2437	13.5	17.28	18.50				
	9	2452		16.94	18.00				
	1	2412		16.31	17.50				
802.11ax HE20	6	2437	MCS0	17.84	18.50				
11220	11	2462		16.46	17.50				
	3	2422		15.79	16.50				
802.11ax HE40	6	2437	MCS0	17.17	18.50				
	9	2452		16.91	18.00				

	WIFI 2.4G MIMO							
Mode	Channel	Channel Frequency(MHz)		Average Power (dBm)	Tune up			
	1	2412		18.43	19.50			
802.11n HT20	6	2437	6.5	19.68	20.50			
11120	11	2462		18.57	19.50			
	3	2422		18.30	19.50			
802.11n HT40	6	2437	13.5	19.55	20.50			
	9	2452		18.99	19.50			
	1	2412		18.53	19.50			
802.11ax HE20	6	2437	MCS0	19.98	21.00			
11220	11	2462		18.73	19.50			
	3	2422		18.18	19.50			
802.11ax HE40	6	2437	MCS0	19.44	20.50			
	9	2452		18.92	19.50			



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8.1.2 Conducted Power of WIFI 5G

			WIFI 5G Ant0			
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		15.99	17.00
	U-NII-1	40	5200		15.84	17.00
802.110		48	5240	6	15.96	17.00
802.11a		149	5745		13.87	15.00
	U-NII-3	157	5785		14.53	15.50
		165	5825		14.76	16.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		13.24	14.50
	U-NII-1	40	5200		12.71	13.50
802.11n-HT20		48	5240	MOGO	12.28	13.50
		149	5745	MCS0	14.46	15.50
	U-NII-3	157	5785		15.11	16.00
		165	5825		15.29	16.50
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		38	5190		13.62	15.00
	U-NII-1	46	5230		13.59	15.00
802.11n-HT40		151	5755	MCS0	15.80	16.50
	U-NII-3	159	5795		16.18	17.50
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		13.28	14.50
	U-NII-1	40	5200		12.70	13.50
802.11ac		48	5240		12.59	13.50
VHT20		149	5745	MCS0	14.57	15.50
	U-NII-3	157	5785		15.13	16.00
		165	5825		15.25	16.50
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		38	5190		13.73	15.00
802.11ac	U-NII-1	46	5230		13.22	15.00
VHT40		151	5755	MCS0	15.50	16.50
	U-NII-3	159	5795		15.84	17.50
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac	U-NII-1	42	5210	MCSO	13.80	14.50
VHT80	U-NII-3	155	5775	MCS0	16.25	17.50



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Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		13.65	14.50
	U-NII-1	40	5200		13.20	13.50 13.50 15.50 16.50 16.50 Tune up
802.11ax		48	5240	MCS0	12.88	13.50
HEW20		149	5745	WIC30	14.94	15.50
	U-NII-3	157	5785		15.49	16.50
		165	5825		15.63	16.50
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		38	5190		13.78	15.00
802.11ax	U-NII-1	46	5230	MCS0	13.05	14.50
HEW40	U-NII-3	151	5755	WICSU	15.56	17.00
	0-NII-3	159	5795		16.04	17.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ax	U-NII-1	42	5210	MCS0	13.86	15.00
HEW80	U-NII-3	155	5775	IVIC30	16.22	17.50

			WIFI 5G Ant1			
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		16.27	17.50
	U-NII-1	40	5200		15.69	16.50
802.11a		48	5240	6	15.69	16.50
002.11a		149	5745		15.79	16.50
	U-NII-3	157	5785		16.64	17.50 16.50 16.50
		165	5825		16.69	17.50
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		36	5180		17.05	18.00
	U-NII-1	40	5200		16.57	17.50
000 44+ 11700		48	5240	MCS0	16.02	17.00
802.11n-HT20		149	5745	WICSU	16.30	17.50
	U-NII-3	157	5785		17.17	18.50
		165	5825		17.36	18.50
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		38	5190		17.23	18.50
000 445 11740	U-NII-1	46	5230	MOGO	17.10	18.00
802.11n-HT40		151	5755	MCS0	17.48	18.50
	U-NII-3	159	5795]	18.07	19.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
802.11ac	U-NII-1	36	5180	MCS0	17.12	18.00



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				r age.	00 10		
VHT20		40	5200		16.60	17.50	
		48	5240		16.34	17.50	
		149	5745		16.42	17.50	
	U-NII-3	157	5785		17.18	18.50	
		165	5825		17.27	18.50	
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	
		38	5190		17.34	18.50	
802.11ac	U-NII-1	46	5230		16.68	17.50	
VHT40		151	5755	MCS0	17.22	18.50	
	U-NII-3	159	5795	_	17.74	18.50	
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	
802.11ac	U-NII-1	42	5210	MCCO	16.82	18.00	
VHT80	U-NII-3	155	5775	MCS0	17.55	18.50	
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	
	U-NII-1	36	5180	- MCS0	17.08	18.00	
		40	5200		16.66	17.50	
802.11ax		48	5240		16.17	17.50	
HEW20		149	5745	- MCSU	16.37	17.50	
	U-NII-3	157	5785	_	17.07	18.00	
		165	5825	_	17.10	18.50	
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	
		38	5190		16.84	17.50	
802.11ax	U-NII-1	46	5230	MCS0	16.10	17.00	
HEW40		151	5755	MCSU	16.72	17.50	
	U-NII-3	159	5795		17.39	18.50	
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up	
802.11ax	U-NII-1	42	5210	MCSO	16.87	17.50	
HEW80	U-NII-3	155	5775	MCS0	17.54	18.50	

	WIFI 5G MIMO									
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up		
		36	5180		13.24	17.05	18.56	19.50		
		40	5200		12.71	16.57	18.07	19.00		
802.11n-		48	5240	MCS0	12.28	16.02	17.55	19.00 18.50		
HT20		149	5745	MC30	14.46	16.30	18.49	19.50		
	U-NII-3	157	5785		15.11	17.17	19.27	20.50		
		165	5825		15.29	17.36	19.46	20.50		



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					-			
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
		38	5190		13.62	17.23	18.80	19.50
802.11n-	U-NII-1	46	5230		13.59	17.10	18.70	19.50
HT40		151	5755	MCS0	15.80	17.48	19.73	20.50
	U-NII-3	159	5795		16.18	17.75	20.05	21.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
		36	5180		13.28	17.12	18.62	19.50
	U-NII-1	40	5200		12.70	16.60	18.08	19.00
802.11ac		48	5240	11000	12.59	16.34	17.87	18.50
VHT20		149	5745	MCS0	14.57	16.42	18.60	19.50
	U-NII-3	157	5785		15.13	17.18	19.29	20.00
		165	5825		15.25	17.27	19.39	20.50
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
	U-NII-1	38	5190		13.73	17.34	18.91	20.00
802.11ac	U-INII-1	46	5230	MCS0	13.22	16.68	18.30	19.50
VHT40		151	5755	10030	15.50	17.22	19.45	20.50
U-NII-3	U-INII-3	159	5795		15.84	17.74	19.90	21.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ac	U-NII-1	42	5210	MOCO	13.80	16.82	18.58	19.50
VHT80	U-NII-3	155	5775	MCS0	16.25	17.55	19.96	21.00
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
		36	5180		13.65	17.08	18.71	19.50
	U-NII-1	40	5200		13.20	16.66	18.28	19.50
802.11ax		48	5240	MCS0	12.88	16.17	17.84	18.50
HEW20		149	5745	10030	14.94	16.37	18.72	19.50
	U-NII-3	157	5785		15.49	17.07	19.36	20.50
		165	5825		15.63	17.10	19.44	20.50
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
		38	5190		13.78	16.84	18.58	19.50
802.11ax	U-NII-1	46	5230	M000	13.05	16.10	17.85	18.50
HEW40		151	5755	MCS0	15.56	16.72	19.19	20.00
	U-NII-3	159	5795]	16.04	17.39	19.78	20.50
Mode	5GHz	Channel	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Average Power (dBm)	Average Power (dBm)	Tune up
802.11ax	U-NII-1	42	5210	MCS0	13.86	16.87	18.63	19.50
HEW80	U-NII-3	155	5775		16.22	17.54	19.94	21.00



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	WIFI 2.4G Ant0+1								
Mode	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up					
	2403.5		24.66	26.00					
1.4M	2437.5	$\begin{tabular}{ c c c c c } \hline Data Rate(Mbps) & Average Power (dBm) & Tur (dBm) & Tur (dBm) & Tur (dBm) & Tur (dBm) & 24.66 & 26.76 & 27.76 & 27.76 & 27.76 & 27.76 & 26.78 & 26.78 & 26.78 & 26.78 & 26.78 & 26.78 & 26.78 & 26.78 & 26.78 & 26.71$	27.00						
	2469.12		24.51	26.00					
	2405.5		26.95	28.00					
ЗM	2438.5	6	26.98	28.00					
	2468.2		26.58	28.00					
	2404.5		28.33	29.50					
5M	2439.5	6.5 <u>28</u> . 27.	28.26	29.50					
	2469.5		27.36	28.50					
	2407.5		27.07	28.50					
10M	2437.5	27.07 13.5 28.73	30.00						
	2467.5		26.71	28.00					
	2412.5		27.08	28.50					
20M	2437.5	MCS0	28.93	30.00					
	2462.5		28.00	29.00					
	2422.5		24.13	25.50					
40M	2437.5	MCS0	29.76	30.50					
	2452.5		26.25	27.50					
	2432.5		23.30	24.50					
60M	2437.5	MCS0	27.84	29.00					
	2442.5		26.94	28.00					

8.1.3 Conducted Power of 2.4G SDR



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	WIFI 2.4G Ant4+5								
Mode	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up					
	2403.5		25.13	26.50					
1.4M	2437.5	1	25.28	26.50					
	2469.12		24.88	26.00					
	2405.5		27.28	28.50					
3M	2438.5	6.5	27.09	28.50					
	2468.2		26.98	28.00					
	2404.5		27.52	29.00					
5M	2439.5	6.5	27.61	29.00					
	2469.5		27.27	28.50					
	2407.5		27.45	28.50					
10M	2437.5	13.5	28.11	29.50					
	2467.5		26.54	28.00					
	2412.5		27.72	29.00					
20M	2437.5	MCS0	28.72	30.00					
	2462.5		27.75	29.00					
	2422.5		25.47	26.50					
40M	2437.5	MCS0	29.43	30.50					
	2452.5		26.37	27.50					
	2432.5		23.89	25.00					
60M	2437.5	MCS0	26.43	27.50					
	2442.5		27.10	28.50					



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8.1.4 Conducted Power of 5G SDR

		WIFI 50	G Ant0+1		
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5154	· · ·	2.86	4.00
1.4M	U-NII-1	5200	6	9.21	10.50
		5248		8.83	10.00
		5728.5		28.97	30.00
1.4M	U-NII-3	5786.5	6	28.86	30.00
		5846.12		28.75	30.00
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5154		2.25	3.50
ЗM	U-NII-1	5199	MCS0	12.25	4.00 10.50 10.00 30.00 30.00 30.00 Tune up
		5247		12.48	13.50
		5727.5		28.94	30.00
ЗM	U-NII-3	5787.5	MCS0	28.64	30.00
		5847.2		29.36	30.50
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5155		5.16	6.50
5M	U-NII-1	5200	MCS0	16.10	17.50
		5245		15.19	16.50
		5732.5		28.95	30.00
5M	U-NII-3	5787.5	MCS0	28.63	30.00
		5842.5		28.86	30.00
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5157		8.43	9.50
10M	U-NII-1	5200	MCS0	18.73	10.00 30.00 30.00 Tune up 3.50 13.50 13.50 30.00 30.00 30.00 30.50 Tune up 6.50 17.50 16.50 30.00 30.00 30.00 30.00 30.00 20.00 20.00 20.00 30.00 30.00 Tune up 9.50 20.00 20.00 30.00
		5245		18.88	20.00
		5730.5		28.95	30.00
10M	U-NII-3	5787.5	MCS0	28.60	30.00
		5844.5		28.80	30.00
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5161		8.66	10.00
20M	U-NII-1	5200	MCS0	18.76	20.00
		5240		19.43	20.50
		5735.5		28.79	30.00
20M	U-NII-3	5787.5	MCS0	28.61	30.00
		5839.5		28.61	30.00



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Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5170		11.65	13.00
40M	U-NII-1	5200	MCS0	18.95	20.00
		5230		18.89	20.00
		5745.5		25.20	26.50
40M	U-NII-3	5787.5	MCS0	26.74	28.00
		5829.5		24.68	26.00
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5180		12.34	13.50
60M	U-NII-1	5200	MCS0	18.64	20.00
		5220		18.36	19.50
		5755.5		25.66	27.00
60M	U-NII-3	5787.5	MCS0	25.68	27.00
		5819.5		25.87	27.00
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5190		14.40	15.50
80M	U-NII-1	5200	MCS0	19.03	20.00
		5210		19.06	20.00
		5765.5		25.67	27.00
80M	U-NII-3	5787.5	MCS0	25.64	27.00
		5809.5		25.70	27.00



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		WIFI 5	G Ant4+5		
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5154		2.57	4.00
1.4M	U-NII-1	5200	6	10.73	12.00
		5248		10.56	12.00
		5728.5		27.13	28.00
1.4M	U-NII-3	5786.5	6	26.72	28.00
		5846.12		26.96	28.00
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5154		1.30	2.50
3M	U-NII-1	5199	MCS0	11.77	13.00
		5247		11.87	13.00
		5727.5		27.12	28.50
ЗM	U-NII-3	5787.5	MCS0	26.27	27.50
		5847.2		27.31	28.00
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5155		3.92	5.00
5M	U-NII-1	5200	MCS0	17.01	18.50
		5245		15.32	16.50
		5732.5		27.04	28.00
5M	U-NII-3	5787.5	MCS0	26.69	28.00
		5842.5		27.12	28.00
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5157		6.80	8.00
10M	U-NII-1	5200	MCS0	18.42	19.50
		5245		17.28	18.50
		5730.5		27.56	28.50
10M	U-NII-3	5787.5	MCS0	26.80	28.00
		5844.5		27.58	28.50
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5161		6.79	8.00
20M	U-NII-1	5200	MCS0	18.12	19.00
		5240		18.19	19.00
		5735.5		27.01	28.00
20M	U-NII-3	5787.5	MCS0	26.74	28.00
		5839.5		26.92	28.00



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Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5170		10.42	11.50
40M	U-NII-1	5200	MCS0	18.21	19.00
		5230		18.26	19.00
		5745.5		22.64	24.00
40M	U-NII-3	5787.5	MCS0	24.87	26.00
		5829.5		21.38	22.50
Mode	ode 5GHz Free		Data Rate(Mbps)	Average Power (dBm)	Tune up
		5180		11.21	12.50
60M	U-NII-1	5200	MCS0	17.43	18.50
		5220		17.85	19.00
		5755.5		22.84	24.00
60M	U-NII-3	5787.5	MCS0	22.70	24.00
		5819.5		23.15	24.50
Mode	5GHz	Frequency(MHz)	Data Rate(Mbps)	Average Power (dBm)	Tune up
		5190		12.53	14.00
80M	U-NII-1	5200	MCS0	16.87	18.00
		5210		17.83	19.00
		5765.5		23.15	24.50
80M	U-NII-3	5787.5	MCS0	22.83	24.00
		5809.5		23.43	24.50



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8.1.5 Conducted Power of BT

В	sт	Average Conducted Power(dBm)										
Band	Channel	0	Tune up	39	Tune up	78	Tune up					
	GFSK	2.36	3.50	4.33	5.50	2.69	3.50					
BT	π/4DQPSK	1.31	2.50	3.36	4.50	1.71	2.50					
	8DPSK	1.69	2.50	3.75	4.50	2.12	3.00					
Band	Channel	0	Tune up	19	Tune up	39	Tune up					
BLE 1M	GFSK	3.47	4.50	5.51	6.50	3.85	4.50					
BLE 2M	GFSK	6.11	7.00	8.16	9.00	6.53	7.50					



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8.2 Measurement of SAR Data

Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B.

2) Per KDB447498 D04, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:

- \leq 0.8W/kg for 1-g or 2.0W/kg for 10-g respectively, when the transmission band is \leq 100MHz.
- \leq 0.6 W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz.
- \leq 0.4 W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is \geq 200 MHz.

WiFi 2.4G:

 When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR test for the other 802.11 modes are not required.

WiFi 5G:

- When the same maximum output power is specified for both bands, begin SAR measurement in U-NII-2A band by applying the OFDM SAR requirements. As the highest reported SAR for a test configuration is ≤ 1.2 W/kg, SAR is not required for U-NII-1 band for that configuration.
- 2) For Wi-Fi 5G, U-NII-2A (5250-5350 MHz) and U-NII-2C (5470-5725 MHz) bands does not support hotspot function.

When the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is \leq 1.2 W/kg, SAR test for the other 802.11 modes are not required.



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8.2.1 SAR Result of WIFI 2.4G

	Wi-Fi 2.4G SAR Test Record														
	MIMO Test Record														
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)			
				Limbs	s Test da	ta (Separ	ate 0mm)								
Front side															
Back side															
Left side	802.11ax HE20	6/2437	99.68%	1.003	1.910	0.688	-0.02	19.98	21.00	1.265	0.873	22.1			
Right side	802.11ax HE20	6/2437	99.68%	1.003	2.080	0.859	-0.04	19.98	21.00	1.265	1.090	22.1			
Top side	802.11ax HE20	6/2437	99.68%	1.003	0.035	0.023	-0.07	19.98	21.00	1.265	0.029	22.1			
Bottom side	802.11ax HE20	6/2437	99.68%	1.003	0.030	0.016	-0.05	19.98	21.00	1.265	0.020	22.1			
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)			
	Body Test data (Separate 0mm)														
Bottom side	802.11ax HE20	6/2437	99.68%	1.003	0.030	0.016	-0.05	19.98	21.00	1.265	0.038	22.1			



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8.2.2 SAR Result of WIFI 5G

	Wi-Fi 5G SAR Test Record												
					MIMO Tes	t Record	chain1						
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 10- g (W/kg)	Liquid Temp.(℃)	
				Limbs T	est data o	f U-NII-1 (\$	Separate	0mm)					
Front side	802.11ac VHT40	38/5190	99.65%	1.003	0.328	0.129	-0.05	18.91	20.00	1.285	0.166	22.1	
Back side	802.11ac VHT40	38/5190	99.65%	1.003	0.050	0.013	0.06	18.91	20.00	1.285	0.017	22.1	
Left side	802.11ac VHT40	38/5190	99.65%	1.003	1.085	0.377	0.00	18.91	20.00	1.285	0.486	22.1	
Right side	802.11ac VHT40	38/5190	99.65%	1.003	0.459	0.162	0.05	18.91	20.00	1.285	0.209	22.1	
Top side	802.11ac VHT40	38/5190	99.65%	1.003	0.049	0.014	-0.06	18.91	20.00	1.285	0.018	22.1	
Bottom side	802.11ac VHT40	38/5190	99.65%	1.003	0.111	0.040	0.00	18.91	20.00	1.285	0.052	22.1	
				Limbs T	est data o	f U-NII-3 (\$	Separate	0mm)					
Front side	802.11ac VHT80	155/5775	99.40%	1.003	0.295	0.102	0.07	19.96	21.00	1.271	0.130	22.1	
Back side	802.11ac VHT80	155/5775	99.40%	1.003	0.069	0.020	-0.01	19.96	21.00	1.271	0.025	22.1	
Left side	802.11ac VHT80	155/5775	99.40%	1.003	1.360	0.415	-0.02	19.96	21.00	1.271	0.529	22.1	
Right side	802.11ac VHT80	155/5775	99.40%	1.003	0.756	0.267	-0.11	19.96	21.00	1.271	0.340	22.1	
Top side	802.11ac VHT80	155/5775	99.40%	1.003	0.069	0.018	-0.08	19.96	21.00	1.271	0.023	22.1	
Bottom side	802.11ac VHT80	155/5775	99.40%	1.003	0.095	0.035	0.13	19.96	21.00	1.271	0.045	22.1	
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 1-g (W/kg)	Liquid Temp.(℃)	
				Body T	est data of	U-NII-1 (S	Separate	5mm)					
Bottom side	802.11ac VHT40	38/5190	99.65%	1.004	0.111	0.040	0.03	18.91	20.00	1.285	0.143	22.1	
				Body T	est data of	U-NII-3 (S	Separate	5mm)		-			
Bottom side	802.11ac VHT80	155/5775	99.40%	1.006	0.095	0.035	0.13	19.96	21.00	1.271	0.121	22.1	



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8.2.3 SAR Result of 2.4G SDR

					2.4G SDR	SAR Tes	st Record					
		-	1		Ant0+1 R	otate Tes	t Record	T		-		
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)			Liquid Temp.(℃)
		1	1	Li	mbs Test	data (Sep	arate 0mm)		1	1	
Front side	40M	2437.5	100.00%	16.40%	0.050	0.030	-0.17	29.76	31.00	1.330	0.007	22.1
Back side	40M	2437.5	100.00%	16.40%	0.893	0.427	-0.13	29.76	31.00	1.330	0.093	22.1
Left side	40M	2437.5	100.00%	16.40%	0.039	0.017	-0.11	29.76	31.00	1.330	0.004	22.1
Right side	40M	2437.5	100.00%	16.40%	0.027	0.013	0.13	29.76	31.00	1.330	0.003	22.1
Top side	40M	2437.5	100.00%	16.40%	0.129	0.076	0.02	29.76	31.00	1.330	0.017	22.1
Bottom side	40M	2437.5	100.00%	16.40%	0.020	0.011	-0.07	29.76	31.00	1.330	0.002	22.1
Test position	Test mode	Test ch./Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kq)	Liquid Temp.(℃)
				В	ody Test of	data (Sepa	arate 0mm))			(5/	
Bottom side	40M	2437.5	100.00%	16.40%	0.020	0.011	-0.07	29.76	31.00	1.330	0.004	22.1
						ertical Te	st Record					
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)		Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
		1			mbs Test	data (Sep	arate 0mm)		r		
Front side	40M	2437.5	100.00%	16.40%	0.135	0.073	-0.14	29.76	31.00	1.330	0.016	22.1
Back side	40M	2437.5	100.00%	16.40%	0.244	0.112	-0.04	29.76	31.00	1.330	0.024	22.1
Left side	40M	2437.5	100.00%	16.40%	0.351	0.204	-0.16	29.76	31.00	1.330	0.045	22.1
Right side	40M	2437.5	100.00%	16.40%	0.478	0.276	-0.06	29.76	31.00	1.330	0.060	22.1
Top side	40M	2437.5	100.00%	16.40%	0.542	0.255	0.00	29.76	31.00	1.330	0.056	22.1
Bottom side	40M	2437.5	100.00%	16.40%	0.051	0.023	-0.19	29.76	31.00	1.330	0.005	22.1
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)			Liquid Temp.(°C)
				В	ody Test o	data (Sepa	arate 0mm)					
Bottom side	40M	2437.5	100.00%	16.40%	0.051	0.023	-0.19	29.76	31.00	1.330	0.011	22.1
					Ant0+1	Fold Test	Record					
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor	Scaled SAR 10-g (W/kg)	Liquid Temp.(℃)
		1	1				arate 0mm	,		r	1	
Back side	40M	2437.5	100.00%	16.40%	0.072	0.039	0.19	29.76	31.00	1.330	0.009	22.1
Left side	40M	2437.5	100.00%	16.40%	0.215	0.123	0.18	29.76	31.00	1.330	0.027	22.1
Right side	40M	2437.5	100.00%	16.40%	0.245	0.130	0.14	29.76	31.00	1.330	0.028	22.1
Bottom side	40M	2437.5	100.00%	16.40%	0.052	0.029	-0.03	29.76	31.00	1.330	0.006	22.1



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								•				
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
				В	ody Test o	data (Sepa	arate 0mm)					
Bottom side	40M	2437.5	100.00%	16.40%	0.052	0.029	-0.03	29.43	31.00	1.435	0.012	22.1
					Ant4-	-5 Test Re	ecord					
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)
				Li	mbs Test	data (Sep	arate 0mm)				
Front side	40M	2437.5	100.00%	16.40%	0.256	0.137	0.16	29.43	30.50	1.279	0.029	22.1
Back side	40M	2437.5	100.00%	16.40%	0.029	0.016	-0.06	29.43	30.50	1.279	0.003	22.1
Left side	40M	2437.5	100.00%	16.40%	0.006	0.003	0.00	29.43	30.50	1.279	0.001	22.1
Right side	40M	2437.5	100.00%	16.40%	0.018	0.010	0.17	29.43	30.50	1.279	0.002	22.1
Top side	40M	2437.5	100.00%	16.40%	2.020	0.838	-0.05	29.43	30.50	1.279	0.176	22.1
Bottom side	40M	2437.5	100.00%	16.40%	0.005	0.002	-0.11	29.43	30.50	1.279	0.000	22.1
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
				В	ody Test o	data (Sepa	arate 0mm)					
Bottom side	40M	2437.5	100.00%	16.40%	0.005	0.002	-0.11	29.43	30.50	1.279	0.001	22.1



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8.2.4 SAR Result of 5G SDR

5G SDR SAR Test Record												
Ant0+1 Rotate Test Record												
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor		Liquid Temp.(℃)
				Limb	s Test da	ata of U-N	VII-1 (Se	eparate 0mm)				
Front side	20M	5240	100.00%	16.40%	0.084	0.028	-0.17	19.43	20.50	1.279	0.006	22.1
Back side	20M	5240	100.00%	16.40%	0.340	0.112	0.01	19.43	20.50	1.279	0.023	22.1
Left side	20M	5240	100.00%	16.40%	0.080	0.037	-0.18	19.43	20.50	1.279	0.008	22.1
Right side	20M	5240	100.00%	16.40%	0.123	0.052	0.00	19.43	20.50	1.279	0.011	22.1
Top side	20M	5240	100.00%	16.40%	0.108	0.033	-0.13	19.43	20.50	1.279	0.007	22.1
Bottom side	20M	5240	100.00%	16.40%	0.025	0.007	0.14	19.43	20.50	1.279	0.001	22.1
				Limb	s Test da	ata of U-N	VII-3 (Se	eparate 0mm)				
Front side	3M	5847.2	100.00%	16.40%	0.096	0.020	-0.01	29.36	30.50	1.300	0.004	22.1
Back side	3M	5847.2	100.00%	16.40%	0.074	0.017	-0.07	29.36	30.50	1.300	0.004	22.1
Left side	3M	5847.2	100.00%	16.40%	0.080	0.017	0.02	29.36	30.50	1.300	0.004	22.1
Right side	3M	5847.2	100.00%	16.40%	0.077	0.016	0.11	29.36	30.50	1.300	0.003	22.1
Top side	3M	5847.2	100.00%	16.40%	0.074	0.016	0.01	29.36	30.50	1.300	0.003	22.1
Bottom side	3M	5847.2	100.00%	16.40%	0.025	0.007	-0.11	29.36	30.50	1.300	0.001	22.1
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)
				Body	· Test da	ta of U-N	III-1 (Se	parate 0mm)				
Bottom side	20M	5240	100.00%	16.40%	0.025	0.007	0.14	19.43	20.50	1.279	0.005	22.1
				Body	[,] Test da	ta of U-N	III-3 (Se	parate 0mm)				
Bottom side	3M	5847.2	100.00%	16.40%	0.025	0.007	-0.11	29.36	30.50	1.300	0.005	22.1
	-				Ant0+	1 Vortica	L Teet D					
					7411001	i ventica	Tiestr	Record				
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle		SAR (W/kg) 10-g	Power			Scaled factor		Liquid Temp.(℃)
position	mode	Freq.	Duty Cycle	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted		factor	SAR 10-g (W/kg)	Temp.(℃)
	mode	Freq.	Duty	Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			SAR 10-g	-
position	mode 20M	Freq. 5240	Duty Cycle	Duty Cycle Limbs 16.40%	SAR (W/kg) 1-g s Test da 0.089	SAR (W/kg) 10-g ata of U-N	Power drift (dB)	Conducted Power(dBm) eparate 0mm)	Limit(dBm)	factor	SAR 10-g (W/kg)	Temp.(℃)
position Front side	mode 20M	Freq. 5240 5240	Duty Cycle	Duty Cycle Limbs 16.40%	SAR (W/kg) 1-g s Test da 0.089	SAR (W/kg) 10-g ata of U-N 0.026	Power drift (dB) VII-1 (Se -0.05	Conducted Power(dBm) eparate 0mm) 19.43	Limit(dBm) 20.50	factor 1.279	SAR 10-g (W/kg) 0.005	Temp.(℃) 22.1
position Front side Back side	mode 20M 20M 20M	Freq. 5240 5240 5240	Duty Cycle 100.00% 100.00%	Duty Cycle Limbs 16.40% 16.40%	SAR (W/kg) 1-g 5 Test da 0.089 0.127	SAR (W/kg) 10-g ata of U-N 0.026 0.042	Power drift (dB) VII-1 (Se -0.05 -0.19	Conducted Power(dBm) eparate 0mm) 19.43 19.43	Limit(dBm) 20.50 20.50	factor 1.279 1.279	SAR 10-g (W/kg) 0.005 0.009	Temp.(°C) 22.1 22.1
position Front side Back side Left side	mode 20M 20M 20M	Freq. 5240 5240 5240 5240	Duty Cycle 100.00% 100.00%	Duty Cycle Limbs 16.40% 16.40% 16.40%	SAR (W/kg) 1-g 5 Test da 0.089 0.127 0.199	SAR (W/kg) 10-g ata of U-N 0.026 0.042 0.092	Power drift (dB) VII-1 (Se -0.05 -0.19 0.19	Conducted Power(dBm) eparate 0mm) 19.43 19.43 19.43	Limit(dBm) 20.50 20.50 20.50	factor 1.279 1.279 1.279	SAR 10-g (W/kg) 0.005 0.009 0.019	22.1 22.1 22.1 22.1



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				Limb	s Test da	ata of U-N	VII-3 (Se	eparate 0mm)				
Front side	3M	5847.2	100.00%		0.076	0.017	0.15	29.36	30.50	1.300	0.004	22.1
Back side	3M	5847.2	100.00%	16.40%	0.078	0.017	-0.06	29.36	30.50	1.300	0.004	22.1
Left side	3M	5847.2	100.00%	16.40%	0.079	0.017	-0.12	29.36	30.50	1.300	0.004	22.1
Right side	3M	5847.2	100.00%	16.40%	0.093	0.023	0.09	29.36	30.50	1.300	0.005	22.1
Top side	3M	5847.2	100.00%	16.40%	0.049	0.015	-0.01	29.36	30.50	1.300	0.003	22.1
Bottom side	3M	5847.2	100.00%	16.40%	0.026	0.006	0.05	29.36	30.50	1.300	0.001	22.1
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)			Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
				Body	/ Test da	ata of U-N	III-1 (Se	parate 0mm)				
Bottom side	20M	5240	100.00%	16.40%	0.025	0.007	-0.06	19.43	20.50	1.279	0.005	22.1
				Body	/ Test da	ata of U-N	III-3 (Se	parate 0mm)				
Bottom side	ЗM	5847.2	100.00%	16.40%	0.026	0.006	0.05	29.36	30.50	1.300	0.006	22.1
					Ant0	+1 Fold	Test Re	cord				
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)
				Limb	s Test da	ata of U-N	VII-1 (Se	eparate 0mm)				
Back side	10M	5200	100.00%	16.40%	0.075	0.019	0.07	18.42	19.50	1.282	0.004	22.1
Left side	10M	5200	100.00%	16.40%	0.139	0.044	-0.05	18.42	19.50	1.282	0.009	22.1
Right side	10M	5200	100.00%	16.40%	0.081	0.031	0.04	18.42	19.50	1.282	0.007	22.1
Bottom side	10M	5200	100.00%	16.40%	0.035	0.013	0.09	18.42	19.50	1.282	0.003	22.1
						ata of U-N	VII-3 (Se	eparate 0mm)				
Back side			100.00%		0.067	0.017	0.07	27.58	28.50	1.236	0.003	22.1
Left side	10M		100.00%		0.080	0.016	-0.09	27.58	28.50	1.236	0.003	22.1
Right side	10M	5844.5	100.00%	16.40%	0.082	0.019	0.03	27.58	28.50	1.236	0.004	22.1
Bottom side	10M	5844.5	100.00%	16.40%	0.024	0.005	0.07	27.58	28.50	1.236	0.001	22.1
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)
				Body	/ Test da	ata of U-N	III-1 (Se	parate 0mm)				
Bottom side	10M	5200	100.00%	16.40%	0.035	0.013	0.09	18.42	19.50	1.282	0.007	22.1
				Body	/ Test da	ata of U-N	III-3 (Se	parate 0mm)				
Bottom side	10M	5844.5	100.00%	16.40%	0.024	0.005	0.07	27.58	28.50	1.236	0.005	22.1



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	Ant4+5 Test Record												
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled	-	Liquid Temp.(℃)	
				Limb	s Test da	ata of U-N	VII-1 (Se	eparate 0mm)					
Front side	10M	5200	100.00%	16.40%	0.091	0.037	0.01	18.42	19.50	1.282	0.008	22.1	
Back side	10M	5200	100.00%	16.40%	0.059	0.014	-0.15	18.42	19.50	1.282	0.003	22.1	
Left side	10M	5200	100.00%	16.40%	0.074	0.016	0.01	18.42	19.50	1.282	0.003	22.1	
Right side	10M	5200	100.00%	16.40%	0.048	0.012	0.07	18.42	19.50	1.282	0.003	22.1	
Top side	10M	5200	100.00%	16.40%	0.726	0.212	0.11	18.42	19.50	1.282	0.045	22.1	
Bottom side	10M	5200	100.00%	16.40%	0.027	0.006	0.04	18.42	19.50	1.282	0.001	22.1	
				Limb	s Test da	ata of U-N	VII-3 (Se	eparate 0mm)					
Front side	10M	5844.5	100.00%	16.40%	2.780	1.020	-0.11	27.58	28.50	1.236	0.207	22.1	
Back side	10M	5844.5	100.00%	16.40%	0.454	0.189	-0.17	27.58	28.50	1.236	0.038	22.1	
Left side	10M	5844.5	100.00%	16.40%	0.074	0.026	-0.10	27.58	28.50	1.236	0.005	22.1	
Right side	10M	5844.5	100.00%	16.40%	0.170	0.078	-0.15	27.58	28.50	1.236	0.016	22.1	
Top side	10M	5844.5	100.00%	16.40%	5.030	1.650	-0.17	27.58	28.50	1.236	0.334	22.1	
Bottom side	10M	5844.5	100.00%	16.40%	0.022	0.007	-0.09	27.58	28.50	1.236	0.001	22.1	
Test position	Test mode	Test Freq.	Test Duty Cycle	Claimed Duty Cycle	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled	Scaled SAR 1- g (W/kg)	Liquid Temp.(℃)	
				Body	/ Test da	ta of U-N	III-1 (Se	parate 5mm)					
Bottom side	10M	5200	100.00%	16.40%	0.027	0.006	0.04	18.42	19.50	1.282	0.006	22.1	
				Body	/ Test da	ta of U-N	III-3 (Se	parate 5mm)					
Bottom side	10M	5844.5	100.00%	16.40%	0.022	0.007	-0.09	27.58	28.50	1.236	0.004	22.1	



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8.2.5 SAR Result of BT

	Bluetooth SAR Test Record													
	Ant0 Test Record													
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)	Tune up Limit(dBm)	Scaled factor		Liquid Temp.(℃)		
				l	_imbs Te	est data (Separate	e 0mm)						
Front side	BLE 2M	19/2440	33.60%	2.976	0.026	0.012	-0.08	8.16	9.00	1.213	0.043	21.5		
Back side	BLE 2M	19/2440	33.60%	2.976	0.020	0.011	-0.06	8.16	9.00	1.213	0.040	21.5		
Left side	BLE 2M	19/2440	33.60%	2.976	0.013	0.007	0.05	8.16	9.00	1.213	0.025	21.5		
Right side	BLE 2M	19/2440	33.60%	2.976	0.227	0.093	-0.06	8.16	9.00	1.213	0.336	21.5		
Top side	BLE 2M	19/2440	33.60%	2.976	0.009	0.003	-0.03	8.16	9.00	1.213	0.011	21.5		
Bottom side	BLE 2M	19/2440	33.60%	2.976	0.016	0.008	-0.08	8.16	9.00	1.213	0.029	21.5		
Test position	Test mode	Test ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted Power(dBm)		Scaled factor		Liquid Temp.(℃)		
					Body Te	st data (Separate	: 0mm)						
Bottom side	BLE 2M	19/2440	33.60%	2.976	0.016	0.008	-0.08	8.16	9.00	1.213	0.058	21.5		



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8.3 Multiple Transmitter Evaluation

8.3.1 Simultaneous SAR test evaluation

No.	Simultaneous Tx Combination	Body	Limbs
1	2.4G SDR+5.1G Wi-Fi	Yes	Yes
2	2.4G SDR+5.8G Wi-Fi	Yes	Yes
3	BT+5.1G SDR	Yes	Yes
4	BT+5.8G SDR	Yes	Yes
5	5.1G SDR+2.4G Wi-Fi	Yes	Yes
6	5.8G SDR+2.4G Wi-Fi	Yes	Yes

Note:

1) The device does not support DTM function.

2) For WiFi 5G,U-NII-2A and U-NII-2C band does not support hotspot function.



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8.3.2 Simultaneous Transmission SAR Summation Scenario

Body:

-	S						
WIFI 2.4G Max SAR	WIFI 5G Max SAR	SDR 2.4G Max SAR	SDR 5G Max SAR	Bluetooth Max SAR	Summed SAR		٨R
1	2	3	4	5	1+4	2+3	4+5
0.038	0.143	0.012	0.007	0.058	0.045	0.155	0.065

Limbs:

SARmax (W/kg)								
WIFI 2.4G Max SAR	WIFI 5G Max SAR	SDR 2.4G Max SAR	SDR 5G Max SAR	Bluetooth Max SAR	Summed SAR		١R	
1	2	3	4	5	1+4	2+3	4+5	
1.090	0.529	0.176	0.334	0.336	1.424	0.705	0.670	



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9 Equipment list

<u> </u>		it iist							
	Test Platform SPEAG DASY Professional								
	Description SAR Test System								
So	oftware Reference	cDASY8 V16.4.0.5005							
	Hardware Reference								
Equipment		Manufacturer	Model	Inventory No.	Calibration Date	Due date of calibration			
\square	Test Phantom	SPEAG	ELI	SZ-WSR-A-028	NCR	NCR			
\boxtimes	DAE	SPEAG	DAE4ip	SZ-WSR-M-074	2024/08/08	2025/08/07			
\boxtimes	E-Field Probe	SPEAG	EX3DV4	SZ-WSR-M-079	2024/11/20	2025/11/19			
\square	Validation Kits	SPEAG	D2450V2	SZ-WSR-M-039	2022/11/02	2025/11/01			
\boxtimes	Validation Kits	SPEAG	D5GHzV2	SZ-WSR-M-046	2022/11/01	2025/10/31			
	Dielectric parameter probes	SPEAG	DAKS-3.5	SZ-WSR-M-053	2024/06/26	2025/06/25			
	Vector Network Analyzer and Vector Reflectometer	SPEAG	DAKS_VNA R140	SZ-WSR-M-054	2024/06/26	2025/06/25			
	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-005	2025/01/08	2026/01/07			
	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-018	2024/05/24	2025/05/23			
	Radio Communication Analyzer	Anritsu	MT8820C	SZ-WSR-M-020	2024/08/19	2025/08/18			
\boxtimes	RF Bi-Directional Coupler	Agilent	86205- 60001	SZ-WSR-A-004	NCR	NCR			
\boxtimes	Signal Generator	Agilent	N5171B	SZ-WSR-M-006	2025/01/07	2026/01/06			
\square	Preamplifier	Mini-Circuits	ZHL-42W	SZ-WSR-A-001	NCR	NCR			
\boxtimes	Preamplifier	Compliance Directions Systems Inc.	AMP28-3W	SZ-WSR-A-002	NCR	NCR			
\square	Power Meter	Agilent	E4416A	SZ-WSR-M-007	2025/01/07	2026/01/06			
\boxtimes	Power Sensor	Agilent	8481H	SZ-WSR-M-008	2025/01/07	2026/01/06			
\boxtimes	Power Sensor	R&S	NRP-Z92	SZ-WSR-M-009	2025/01/08	2026/01/07			
\square	Attenuator	SHX	TS2-3dB	SZ-WSR-A-012	NCR	NCR			
	Speed reading thermometer	Zhengzhou Boyang Instrument	TP3001	SZ-WSR-M-014	2024/05/30	2025/05/29			
\square	Temperature	MingGao	T809	SZ-WSR-M-015	2024/05/30	2025/05/29			
\square	Temperature	MingGao	T809	SZ-WSR-M-016	2024/05/30	2025/05/29			
	Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-013	2024/05/28	2025/05/27			
\square	Humidity and	CHIGAO	HTC-1	SZ-WSR-M-012	2024/05/28	2025/05/27			



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Temperature Indicator					
Humidity and Temperature Indicator	CHIGAO	HTC-1	SZ-WSR-M-011	2024/05/28	2025/05/27

Note: All the equipment are within the valid period when the tests are performed.



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10 Calibration certificate

Please see the Appendix C

11 Photographs

Please see the Appendix D

Appendix A: Detailed System Check Results

Appendix B: Detailed Test Results

Appendix C: Calibration certificate

Appendix D: Photographs

--- End of report ---



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